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Notice of Allowability	Application No.	Applicant(s)	Applicant(s)	
	10/707,342	TOLT, ZHIDAN LI		
	Examiner	Art Unit		
	Paul A. Budd	2815		
The MAILING DATE of this communication appeals all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate community of the community	this application. If not includ ication will be mailed in due	ed course. THIS	
1. This communication is responsive to <u>8 August 2007</u> .				
2. X The allowed claim(s) is/are 40-52,55,57,64-68,71,74-81 ar	nd 84-86			
 Acknowledgment is made of a claim for foreign priority unas a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	e been received. e been received in Application cuments have been received of this communication to file a	No in this national stage applica		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			NOTICE OF	
 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet (see 25 CFR 1). 	son's Patent Drawing Review - 's Amendment / Comment or i 1.84(c)) should be written on the	n the Office action of education of the drawings in the front (not the	e back) of	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the	
Attachment(s)	E	rmal Datant Application	•	
 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 	<u> </u>	ormal Patent Application mmary (PTO-413),		
 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	Paper No./Mail Date 7. Examiner's Amendment/Comment			
	9.	•		
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DETAILED ACTION

Response to Amendment

1. Claims 40-57, 64-68, 70, 71, and 74-86 are pending in the above referenced application. Claims 53, 54, 56, 70, 82 and 83 are cancelled without prejudice or surrender of subject matter. The amendments to Claims 55, 64, and 75 to remove minor informalities are accepted and no new matter is entered.

Drawings

2. The drawings submitted 5 December 2005 are accepted. This is a clarification of the Office action dated 8 June 2007 that failed to indicate if the drawings were accepted. The Office had intended to indicated that they were accepted. This is clarified at the request of the applicant.

EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Please change the title of the invention from "LOW VOLTAGE ELECTRON SOURCE WITH SELF ALIGNED GATE APERTURES, FABRICATION METHOD THEREOF, AND LUMINOUS DISPLAY USING THE ELECTRON SOURCE" to - - LOW

VOLTAGE ELECTRON SOURCE WITH SELF ALIGNED GATE APERTURES, AND LUMINOUS DISPLAY USING THE ELECTRON SOURCE - - .

Allowable Subject Matter

Claims 40-52, 55, 57, 64-68, 71, 74-81 and 84-86 are allowed. The following is a 4. statement of reasons for the indication of allowable subject matter: Claim 51 is allowable for at least the limitations that "the embedding material having a surface above which portions of the nano-structures protrude to emit electrons" and "wherein the nano-structures comprise a nonconductive core and a conductive shell". Claim 55 is allowable for at least the limitations that "the embedding material having a surface above which portions of the nano-structures protrude to emit electrons" and "wherein the insulator and the embedding material are composed of the same dielectric material". Claim 64 is allowable for at least the limitations that "the embedding material having a surface above which portions of the nano-structures protrude to emit electrons" and "an anode plate including a transparent anode electrode disposed over a glass substrate and a phosphor screen disposed over the anode electrode, the anode plate being positioned opposite to said electron source with a vacuum gap disposed therebetween". Claims 51, 55, and 64 recite "wherein each aperture exposes a single nano-structure and is concentrically self-aligned with the end of the nano-structure" that is important to structurally distinguish over the prior art. The prior art of record such as Lee (2005/0067935), Hsu (6,448,701), and Nakamoto (6,097,138) were the closest art found but did not teach all of the limitations claimed by the applicant.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul A. Budd whose telephone number is 571-272-8796. The examiner can normally be reached on Monday to Friday 8:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PAB

JEROME JACKSON PRIMARY EXAMINER